C-3-b. Coastal Flats/Bottom Land, Grazing, Pasture Options Worksheet

1 STATE Hawaii 2 FIELD OFFICE Lihue, Aiea, Hoolehua, and Waimea 3 MLRA 163 4 COMMON RESOURCE AREA (CRA) Coastal Flats/Bottom Land 5 RESOURCE INTERPRETATIONS see Section II FOTG for interpretations 5.1 SOIL 5.2 WATER 5.3 AIR 5.4 PLANT						
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5.2 WATER 5.3 AIR						
5.3 AIR						
154 PLANT						
5.5 ANIMAL						
· · · · · · · · · · · · · · · · · · ·	HUMAN					
	HYDROLOGIC UNIT 2001000 / 20050000 / 20060000 / 20070000					
7 SYSTEM TEMPLATE LABEL CFA22						
8 SYSTEM NAME Coastal Flats/Bottom Land, Grazing, Pasture						
9 PLANNING PHASE Non-Benchmark						
10 PLANNING LEVEL RMS						
11 NRCS LANDUSE PAST						
12 PLANNED CONS. PRACTICES enter code / name of practice						
1. 314 Brush Management						
2. 322 Channel Vegetation						
3. 338 Prescribed Burning						
4. 378 Pond						
5. 380 Windbreak / Shelterbelt Establishment						
6. 382 Fence						
7. 412 Grassed Waterway	D. ('					
8. 430 DD Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, F	Plastic					
	9. 442 Irrigation System, Sprinkler					
10. 449 Irrigation Water Management						
11. 472 Use Exclusion						
	12. 512 Pasture and Hay Planting					
14. 521 A Pond Sealing or Lining Flexible Membrane	13. 516 Pipeline					
15. 528 A Prescribed Grazing						
16. 560 Access Road						
17. 575 Animal Trails and Walkways						
18. 590 Nutrient Management						
19. 595 Pest Management						
20. 612 Tree / Shrub Establishment						
21. 614 Watering Facility						
22. 644 Wildlife Wetland Habitat Management						
13 SYSTEM NARRATIVE describe how the practices work together as a system						
Pasture will be intensively grazed and managed. The proposed grazing managemer	nt system					
	will improve or maintain forage production, reduce erosion, and protect nearby coastal waters					
from sedimentation and other pollutants.						
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14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	Soil / Erosion / Sheet & Rill Erosion	Sheet & rill erosion will be reduced to an acceptable soil loss tolerance level of 5 tons/acre/year or less.	Productive topsoil will not erode at an accelerated rate. Soil loss is reduced by tons/acre/year.
	Soil / Erosion / Streambank Erosion	Streams will carry runoff water without eroding.	Grazing area is not reduced by sloughing of streambanks.
	3. Soil / Condition / Tilth, Crusting, Infiltration, Organic Matter	Proposed management techniques will enhance soil tilth.	General soil health will improve condition for optimum forage growth.
	4. Soil / Condition / Soil Compaction	Traffic areas will be avoided or rested.	Forage production will increase.
	5. Soil / Condition / Excess Chemicals in Soil	Risk of contamination from pesticides is evaluated.	Pesticides are properly applied to prevent degradation of water resources.
	6. Water / Quantity / Runoff/Flooding	System installation will stabilize soils with vegetative cover and proper land shaping.	Cost of property damage will be reduced after landscape is stabilized.
	7. Water / Quantity / Soil Saturation	7. Excess water is managed to allow accessibility to grazing operations.	7. Operation costs are minimized.
	Water / Quantity / Irrigation Water Management	Designed irrigation system will efficiently distribute water to grasses.	Water is conserved and forage production will increase.
	9. Water / Quality / Pesticides in Groundwater	A pest management plan will assess the risk of further groundwater contamination.	Pesticides are properly managed and used to minimize groundwater contamination.
	10. Water / Quality / Nutrients & Organics in Surface water	Potential for contamination from nutrients will be evaluated.	Nutrients are properly applied according to soil and plant tissue analysis.
	11. Water / Quality / Suspended Sediment & Turbidity in Surface Water	Amount of sediment in runoff water is minimized.	Effects from suspended sediment and turbidity to aquatic habitat, recreation waters, and other downstream waterbodies are minimized.
	12. Animal / Habitat / Threatened & Endangered Species	12. Food, water, and shelter of threatened or endangered species will not be affected by agricultural activities.	12. Threatened or endangered animals will have a suitable habitat for growth and reproduction.

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CRA	SYSTEM TEMPLATE LABEL				
15	* QUALITY CRITERIA DOCUMENTATION list resource concerns then indicate yes/no (X)				
15	 Sheet & Rill Erosion Streambank Erosion Tilth, Crusting, Infiltration, Organic Matter Soil Compaction Excess Chemicals in Soil Runoff/Flooding Soil Saturation Irrigation Water Management Pesticides in Groundwater Nutrients & Organics in Surface Water Suspended Sediment & Turbidity in Surface Water 	YES YES	NO		
	12. Threatened & Endangered Species (Animal)	⊠ YES	∐ NO		

^{*} Provides an indication that the resource quality criteria will be met.